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www.traininginbangalore.com

✉️ **info@tibacademy.com**

💬 **+91 9513332306**

Introduction

- Why do we need Python?
- Program structure

Execution steps

- Interactive Shell
- Executable or script files
- User Interface or IDE

Memory management and Garbage collections

- Object creation and deletion
- Object properties

Data Types and Operations

- Numbers
- Strings
- List
- Tuple
- Dictionary
- Other Core Types

Statements and Syntax

- Assignments, Expressions and prints
- If tests and Syntax Rules
- While and For Loops
- Iterations and Comprehensions

File Operations

- Opening a file

- Using Files

- Other File tools

Functions

- Function definition and call

- Function Scope

- Arguments

- Function Objects

- Anonymous Functions

Modules and Packages

- Module Creations and Usage

- Module Search Path

- Module Vs. Script

Package Creation and Importing

- Classes

- Classes and instances

- Classes method calls

Inheritance and Compositions

- Static and Class Methods

- Bound and Unbound Methods

- Operator Overloading

- Polymorphism

Exception Handling

- Default Exception Handler

- Catching Exceptions

- Raise an exception

- User defined exception

Advanced Concepts

- Decorators

- Generators

- Iterators

- Co-routines

Standard Library Modules

References

Exercises

Roadmap with Python

Other Activities

<u>Assessments</u>

- **Objective Assessments**

    -- Syntactical based

    -- Scenario based

    Note: At least 2 objective based assessments in each module

- **Hands On – Practical Assessments**

    -- Scenario based

    Note: At least 2 Hands on assessments in each module

<u>Assignments</u>

- **Hands On – Practical Assignments**

    Note: At least 4 Hands on assignments in each module

<u>Tasks – Home Work</u>

- **Regular tasks on each module**

    Note: Tasks are focused more to improve self learning

<u>Resume Support & Interview Preparation</u>

- **Work on one or two mini projects**
- **Discuss and convert the current working project into Python project to add in resume & to explain Python experience in interviews**